



What is claimed is:

1. (Currently Amended) A text-entry system based on trigger sequences comprising 1) a plurality of keys, 2) a plurality of printable symbols, 3) said plurality of printable symbols comprising a plurality of pre-conversion symbols and ~~7~~→ a plurality of post-conversion symbols and optionally a plurality of non-conversion symbols, each of said post-conversion symbols set in a correspondence to a sequence of said pre-conversion symbols, 4) a plurality of symbol-input-end symbols, 5) a display to display printable symbols, 6) a first mechanism to display said pre-conversion symbols in response to keystrokes, and 7) a second mechanism to recognize trigger sequences and thereby trigger conversion of a plurality of said pre-conversion symbols displayed on said display by said first mechanism to a plurality of said post-conversion symbols, a plurality of said trigger sequences contained in a continuation class of trigger sequences elements of said continuation class of trigger sequences characterized in that they comprise~~ing~~ a subsequence of said keystrokes said subsequence comprising at least two of said keystrokes such that ~~the~~ a first of said keystrokes in said subsequence causes said first mechanism to display one of said pre-conversion symbols, and subsequent keystrokes in said subsequence characterized in that each of said subsequent keystrokes ~~the second of said keystrokes in said subsequence~~ generates one of said symbol-input-end symbols, where said generated symbol-input-end symbol applies to an immediately previously displayed printable symbol ~~and displayed pre-conversion symbol~~ to cause input of said immediately previously displayed printable symbol and where each of said subsequent

~~second keystrokes~~ ~~also~~ additionally causes display of any of  
said a further printable pre-conversion symbol ~~which follow~~  
~~said pre-conversion symbol~~ said further printable symbol  
being either a pre-conversion symbol or a non-conversion symbol,  
where a last of said subsequent keystrokes completes said trigger  
sequence, and thereby triggers conversion.

~~in any sequence of said pre-conversion symbols which correspond to~~  
~~one of said post-conversion symbols, whereby upon recognition of one~~  
~~of said trigger sequences conversion of a plurality of said~~  
~~displayed pre-conversion symbols to a plurality of said post-~~  
~~conversion symbols is effected without the need for a keystroke to a~~  
~~dedicated convert key.~~

2. (Withdrawn-Currently Amended) The text-entry system of claim 1  
further characterized in that 1) said pre-conversion symbols ~~are~~  
~~comprised of~~ tone marks and symbols selected from the set of Latin and  
Bopomofo symbols, 2) said post-conversion symbols ~~are~~ ~~comprised of~~  
Hanzi, and 3) a plurality of elements of said continuation class of  
trigger sequences are characterized in that said first keystroke of  
said subsequence causes said first mechanism to display one of said  
tone marks and one of said subsequent keystrokes ~~said second keystroke~~  
of said subsequence generates one of said symbol-input-end symbols,  
said generated symbol-input-end symbol applying to said displayed tone  
mark causing it to be input.

3. (Currently Amended) The text-entry system of claim 1 ~~further~~  
~~comprising a plurality of non-conversion symbols, and further~~  
characterized in that 1) said pre-conversion symbols ~~are~~ ~~comprised of~~  
cHiragana, 2) said post-conversion symbols ~~are~~ ~~comprised of~~ Kanji, 3)

said non-conversion symbols ~~are comprised of~~ Hiragana, ~~and said first mechanism is effective to display a set of symbols comprising said pre-conversion symbols, said post-conversion symbols, and said non-conversion symbols, and~~ 46) said trigger sequences ~~are comprised of~~ two classes, a non-continuation class, elements of said non-continuation class ~~where elements of the first of said classes are~~ characterized in that they comprise a said first keystroke ~~of said subsequence~~ which causes said first mechanism to display a non-continuation ~~one of said~~ cHiragana, and a second keystroke ~~said second keystroke of said subsequence~~ which generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said second keystroke ~~of said subsequence~~ applying to said displayed non-continuation cHiragana causing it to be input, where said second keystroke ~~of said subsequence~~ is one of said keys to which none of said cHiragana have been assigned, and elements of ~~the second of~~ said continuation classes are further characterized in that said first keystroke of said subsequence causes said first mechanism to display ~~one of~~ a continuation said cHiragana, and a first subsequent ~~said~~ ~~second~~ keystroke of said subsequence generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said first subsequent ~~second~~ keystroke of said subsequence applying to said displayed continuation said cHiragana causing it to be input, where said first subsequent ~~second~~ keystroke of said subsequence also causes one of said non-conversion symbols to be displayed by said first mechanism and a second ~~third~~ subsequent keystroke of said subsequence which generates one of said symbol-input-end symbols which applies to said displayed non-conversion symbol causing it to be input.

4. (Withdrawn-Currently Amended) The text-entry system of claim 1 ~~further comprising a plurality of non-conversion symbols, and further~~ characterized in that 1) said pre-conversion symbols ~~are comprised of~~ cLatin symbols, 2) said post-conversion symbols ~~are comprised of~~ Kanji, 3) said non-conversion symbols ~~are comprised of~~ Latin symbols and Hiragana ~~4) said first mechanism is effective to display a set of symbols comprising said pre-conversion symbols, said post-conversion symbols, and said non-conversion symbols, and~~ 4) said trigger sequences ~~are comprised of~~ two classes, a non-continuation class, elements of said non-continuation class ~~where elements of the first of said classes are~~ characterized in that they contain ~~said~~ a first keystroke which ~~of said subsequence~~ causes said first mechanism to display a non-continuation ~~one of~~ said cLatin symbols, and a ~~said~~ second keystroke of said subsequence which generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said second keystroke ~~of said subsequence~~ applying to said displayed non-continuation cLatin symbol causing it to be input, where said second keystroke ~~of said subsequence is on~~ assigned to one of said keys to which none of said cLatin symbols have been assigned, and elements of ~~the second~~ said continuation class ~~are~~ are further characterized in that said first keystroke of said subsequence causes said first mechanism to display ~~one of~~ a continuation said cLatin symbols, and a first subsequent ~~said second~~ keystroke of said subsequence generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said first subsequent ~~second~~ keystroke of said subsequence applying to said displayed continuation said cLatin symbol causing it to be input, where said ~~second~~ first subsequent keystroke of said subsequence also causes one of said non-conversion symbols to be displayed by said first mechanism and ~~a third~~ a second subsequent

keystroke of said subsequence which generates one of said symbol-input-end symbols which applies to said displayed non-conversion symbol causing it to be input.

5. (~~Withdrawn-Currently Amended~~) The text-entry system of claim 1 ~~further comprising a plurality of non-conversion symbols, and further~~ characterized in that 1) said pre-conversion symbols ~~are~~ comprise ~~of~~ Latin symbols, 2) said post-conversion symbols ~~are~~ comprise ~~of~~ Kanji, 3) said non-conversion symbols ~~are~~ comprised ~~of~~ Hiragana 4) ~~said first mechanism is effective to display a set of symbols comprising said pre-conversion symbols, said post-conversion symbols, and said non-conversion symbols, and~~ 4) said trigger sequences ~~are~~ comprised ~~of~~ two classes, a non-continuation class, elements of said non-continuation class where elements of the first of said classes are characterized as containing in that a said first keystroke of said subsequence which causes said first mechanism to display ~~one of~~ a non-continuation said Latin symbols, and a ~~said~~ second keystroke which ~~of said subsequence~~ generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said second keystroke ~~of said subsequence~~ applying to said displayed non-continuation Latin symbol causing it to be input, where said second keystroke ~~of said subsequence~~ is on ~~assigned to~~ one of said keys to which none of said Latin symbols have been assigned, and elements of ~~the second of~~ said continuation classes are further characterized in that said first keystroke of said subsequence causes said first mechanism to display ~~one of~~ a continuation said Latin symbols, and a first subsequent ~~said second~~ keystroke of said subsequence generates one of said symbol-input-end symbols, said symbol-input-end-symbol generated by said ~~second~~ first subsequent keystroke of said subsequence applying to said displayed continuation

said Latin symbol causing it to be input where said first subsequent  
~~second~~ keystroke of said subsequence also causes one of said non-  
conversion symbols to be displayed by said first mechanism and a second  
subsequent ~~a third~~ keystroke of said subsequence which generates one of  
said symbol-input-end symbols which applies to said displayed non-  
conversion symbol causing it to be input.

6. (Withdrawn-Currently Amended) The text-entry system of claim 1  
~~further comprising a plurality of non-conversion symbols, and further~~  
characterized in that 1) said pre-conversion symbols ~~are~~ comprised of  
cJamo, 2) said post-conversion symbols ~~are~~ comprised of Hanja, 3) said  
non-conversion symbols ~~are~~ comprised of Jamo, 4) ~~said first mechanism~~  
~~is effective to display a set of symbols comprising said pre-conversion~~  
~~symbols, said post-conversion symbols, and said non-conversion symbols,~~  
and 4~~5~~) said trigger sequences ~~are~~ comprised of two classes, a non-  
continuation class, where elements of ~~the first of~~ said non-  
continuation class ~~are~~ characterized in that they contain a said  
first keystroke which causes said first mechanism to display a non-  
continuation ~~one of~~ said cJamo, and ~~a said~~ second keystroke which  
generates one of said symbol-input-end symbols, said symbol-input-end-  
symbol generated by said second keystroke applying to said displayed  
non-continuation cJamo causing it to be input, where said second  
keystroke is on a key to which none of said cJamo have been assigned,  
and elements of ~~the~~ said continuation ~~consist of~~ ~~said~~ classes are  
further characterized in that said first keystroke of said subsequence  
causes said first mechanism to display a continuation ~~one of~~ said  
cJamo, and a first subsequent keystroke of said subsequence ~~said second~~  
~~keystroke~~ generates one of said symbol-input-end symbols said symbol-  
input-end-symbol generated by said first subsequent keystroke of said

subsequence ~~second keystroke~~ applying to said displayed continuation  
cJamo causing it to be input, where said first subsequent keystroke of  
said subsequence ~~second keystroke~~ also causes one of said non-  
conversion symbols to be displayed and a second subsequent keystroke  
of said subsequence ~~a third keystroke~~ which generates one of said  
symbol-input-end symbols, said symbol-input-end symbol generated by  
said second subsequent keystroke ~~which applying to~~ to said displayed  
non-conversion symbol causing it to be input.

7. (Previously Presented) The text-entry system of claim 1 further  
comprising a third mechanism to convert said pre-conversion symbols to  
said post-conversion symbols.

8. (Previously Presented) The text-entry system of claim 7 further  
characterized in that said third mechanism is physically remote from  
said first mechanism.

9. (Currently Amended) The text-entry system of claim 7 further  
characterized in that said third mechanism performs said ~~selection~~  
conversion based on the a context comprising of other input symbols  
~~previously input.~~

10. (Currently Amended) The text-entry system of claim 1 further  
comprising a predictive text mechanism operating to select said pre-  
conversion symbols for display based on a ~~the~~ context comprising of  
other input symbols. ~~previously input~~

11. (Currently Amended) The text-entry system of claim 1 further comprising at least one Next key for ~~advancing the~~ incrementing display ~~of~~ symbols in an ordered list containing more than one element.

12. (Withdrawn-Currently Amended) The text-entry system of claim 1 further comprising a multi-tap mechanism for ~~advancing the display of~~ incrementing symbols in an ordered list containing more than one element.

13. (Withdrawn) The text-entry system of claim 2 further characterized in that each time one of said tone marks is displayed, it is only displayed after a plurality of said Latin symbols have been displayed but not input.

14. (Currently Amended) The text-entry system of claim 1 ~~further comprising a plurality of non-conversion symbols~~ further comprising a Next key applying to said plurality of pre-conversion symbols, and a Next key applying to said plurality of non-conversion symbols.

15. (Previously Presented) The text-entry system of claim 3 further characterized in that a plurality of symbols comprising said pre-conversion symbols and said non-conversion symbols are assigned to said keys in a substantially Iroha ordering.

16. (Currently Amended) A method for constructing trigger sequences for a text-entry system comprising the steps of 1) selecting a set of printable symbols comprising pre-conversion, ~~and~~ post-conversion symbols and optionally non-conversion symbols, 2) selecting a text-



entry mechanism which enters text in response to keystrokes, 3) determining a set of keystroke sequences which corresponds to a set of possible texts to be entered using said text-entry system, 4) for each pre-conversion symbol generated by each of said keystroke sequences in said set of keystroke sequences, finding a subsequence of said keystrokes such that said subsequence comprises at least two of said keystrokes such that a first of said keystrokes in said subsequence causes display of said each pre-conversion symbol, and subsequent keystrokes in said subsequence characterized in that each of said subsequent keystrokes generates a symbol-input-end symbol, where said generated symbol-input-end symbol applies to an immediately previously displayed printable symbol to cause input of said immediately previously displayed printable symbol and where each of said subsequent keystrokes additionally causes display of a further printable symbol said further printable symbol being either a pre-conversion symbol or a non-conversion symbol, where a last of said subsequent keystrokes completes said trigger sequence, and thereby triggers conversion,

~~a) one of said keystrokes in said subsequence displays one of said pre-conversion symbols and b) another of said keystrokes in said subsequence i) generates a symbol-input-end symbol which applies to said one pre-conversion symbol, and ii) does not additionally display any of said pre-conversion symbols which follow said one pre-conversion symbol in any sequence of said pre-conversion symbols which correspond to one of said post-conversion symbols, and 5)~~

returning to said step of selecting said set of said printable pre-conversion and said post-conversion symbols if in the event that said step of finding said subsequences fails to produce satisfactory subsequences.

17. (Currently Amended) The text-entry ~~mechanism~~ system of claim 1 further comprising

~~an~~ an assignment of Hiragana to said plurality of keys in a substantially Iroha ordering.

18. (Currently Amended) The text-entry system of claim 1 further comprising a word-based predictive mechanism. ~~characterized in that said per conversion symbols are comprised of words~~

19. (Previously Presented) The text-entry system of claim 18 further comprising a word-completion mechanism.

20. (Withdrawn-Currently Amended) The text-entry system of claim 2 further characterized in that said tone mark appears in ~~at the end of~~ said order after any of said Latin symbols in said order.